

8610

DOCUMENT_REF: DFMT2 861009

REVISED INTERAK DISK FORMAT SPECIFICATION CALCULATIONS

Existing (Wolf Schroeder) WD 2797 Data Table 10

PREAMBLE	32 4E	80 4E
	12 00	12 00
	3 C2	3 C2
Index Mark	1 FC	1 FC
	32 4E	32 4E
	GAP 1a	GAP 1a
SECTOR	12 00	8 00
	GAP 1b,3b	GAP 1b,3b
ID Mark	3 A1	3 A1
Track no	1 FE	1 FE
Side no	1 --	1 --
Sector no	1 --	1 --
Length	1 02	1 02
ID CRC	2 CRC	2 CRC
	22 4E	22 4E
	GAP 2a	GAP 2a
	12 00	12 00
	GAP 2b	GAP 2b
	3 A1	3 A1
Addr Mark	1 FB	1 FB
Sector Data	512 E5	512 E5
Data CRC	2 CRC	2 CRC
	32 4E	24 4E
	GAP 3a	GAP 3a

CALCULATIONS

GAP 1 =	44	GAP 1 =	44
GAP 2 =	34	GAP 2 =	34
GAP 3 =	44	GAP 3 =	44
GAP 4 =	??	GAP 4 =	16
PREAMBLE =	48+	PREAMBLE =	96
1a+	32+	1a+	32+
SECTOR:	528+	SECTOR:	528+
1b+	12+	1b+	8+
2a+	22+	2a+	22+
2b+	12+	2b+	12+
3a+	32+	3a+	24+
TRACK:	606	TRACK:	594
PREAMB +	80+	PREAMB +	128+
(10xSECT)	6060+	(10xSECT)	5940+
GAP4	15-!!!!	GAP4	16+
6125 is worst case		6084	
for disk running		6125	
2% fast: GAP4 of		6084 allows disk	
-15 is unacceptable.		speed error of	
		2.65%: acceptable	

CHANGES TO FORMAT.COM (VERSION 2.1 FOR 5.25" DISKS) TO MAKE VERSION 2.2:

These alterations were discovered by Mr K Daley (to whom our grateful thanks) to make Wolf Schroeder's formatting program comply with the proposed standard above.

Make the following alterations using DDT (on a COPY of FORMAT.COM, unless you are very confident!) as follows. No change in performance will result, except that some non-Interak users, with less advanced disk controllers than the Interak FDC-1, will find it easier to read and write to our formatted diskettes.

The changes below include changing the on-screen version number, so that you as a user will have a clear indication which version of "FORMAT.COM" you are using.

DDT FORMAT.COM<cr>

NEXT PC
0900 0100

Use the "S" command to make the following changes:

Address	Existing	Change	To
0126	31		32
03DF	68		94
03E1	5C		50
03E5	20		50
03EF	0C		08
040B	20		18

CTRL-C (to return to CP/M)

SAVE 8 FORMAT.COM<cr>

DMP 09/10/86